



Attorney's Docket No. 1749/261

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Stephen Creaney; Richard John Ferguson; Philip Lane; Thomas Crummey
Appl No.: 09/437,004
Filed: November 9, 1999
For: "Data Communications Link" Group Art Unit 2734

Assistant Commissioner for Patents
Washington, DC 20231

January 13, 2000

SUBMITTAL OF FORMAL DRAWINGS

Sir:

Enclosed herewith is one set (six sheets) of formal drawings. It is requested that these drawings be substituted for the originally filed informal drawings.

Respectfully submitted,

Samuel G. Layton, Jr.
Registration No. 22,807

ALSTON & BIRD LLP
Post Office Drawer 34009
Charlotte, NC 28234-4009
Tel Charlotte Office (704) 331-6000
Fax Charlotte Office (704) 334-2014

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Box Missing Parts, Assistant Commissioner for Patents, Washington, DC 20231, on January 13, 2000.

Samuel G. Layton, Jr.

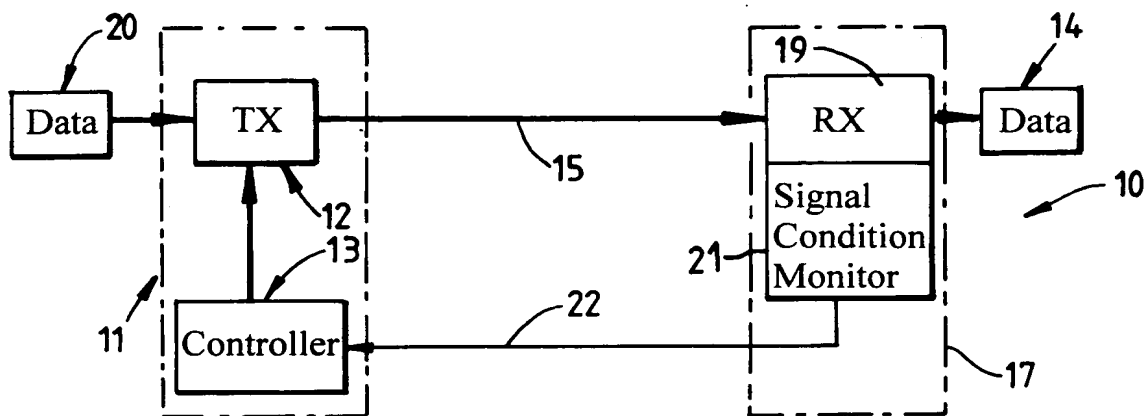


Fig. 1

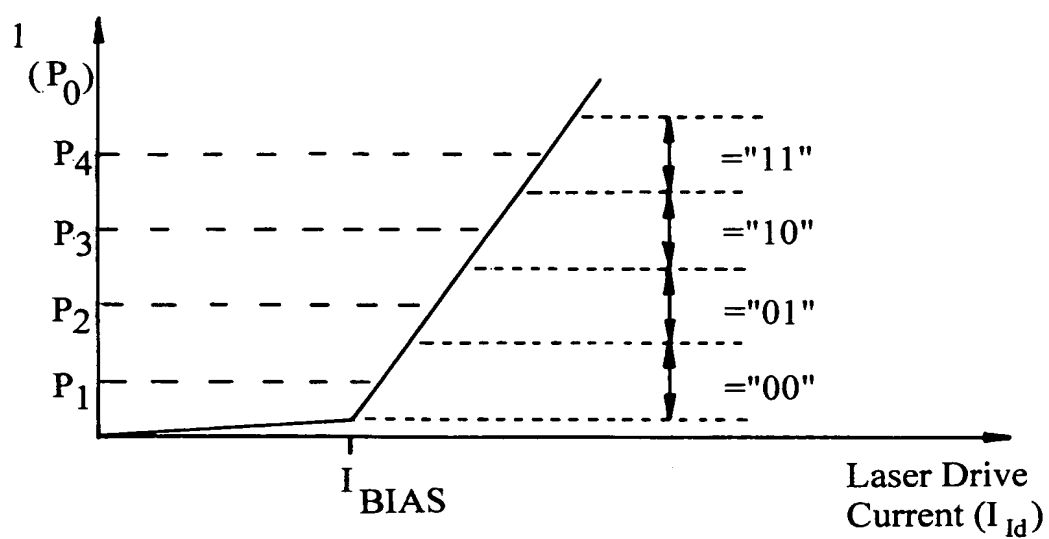


Fig. 2

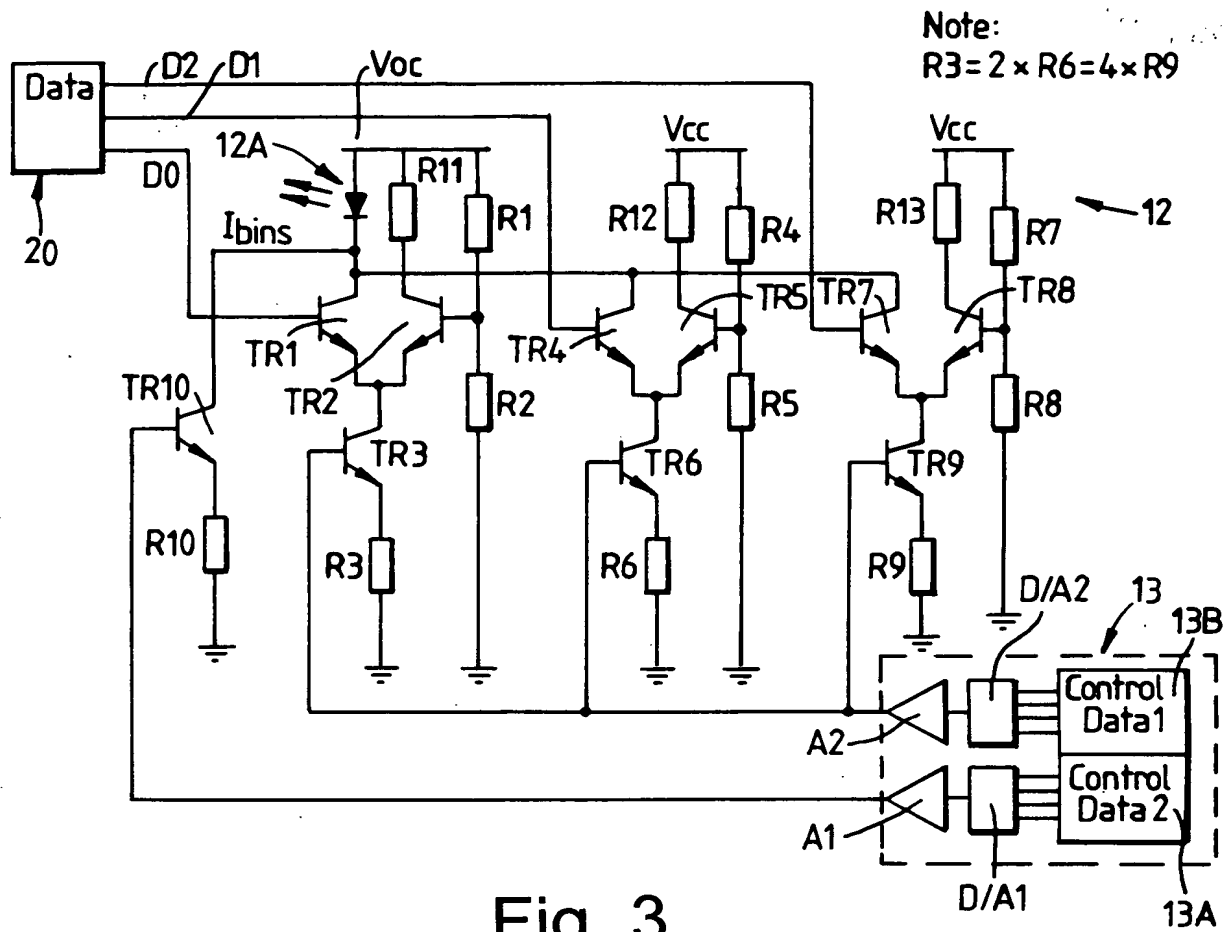


Fig. 3

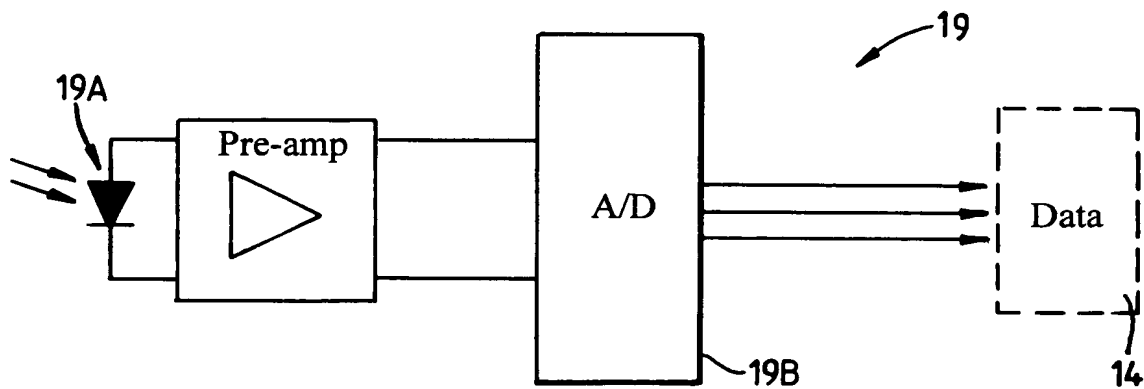


Fig. 4

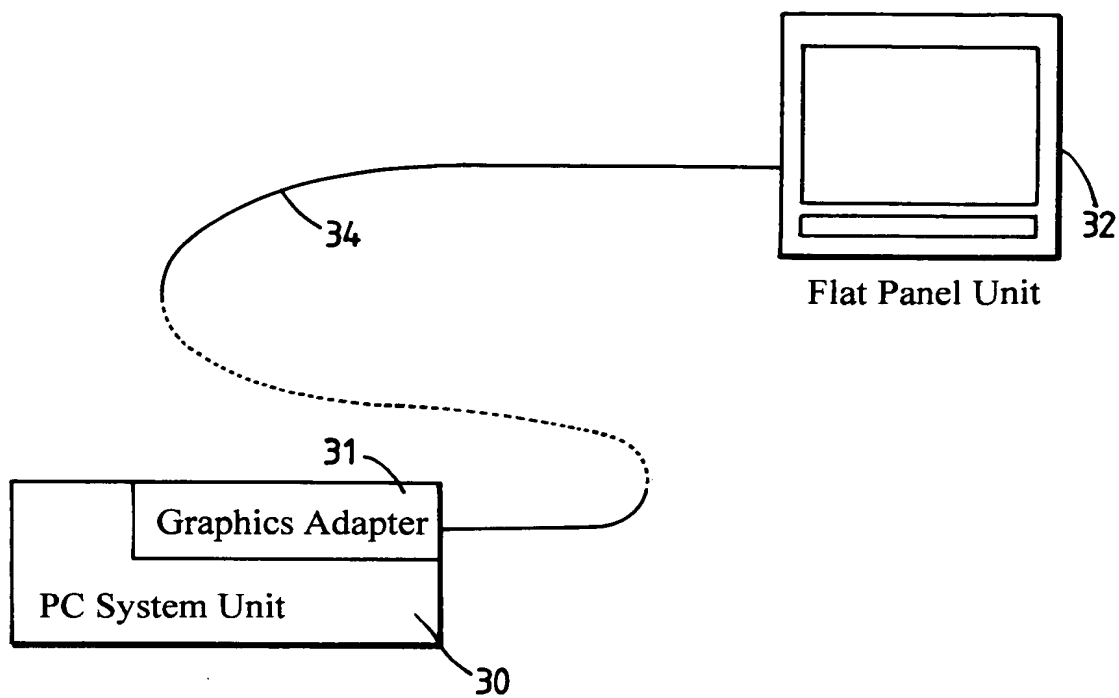


Fig. 5

ALPHA IS MULTI-LEVEL Tx / BINARY Rx, BETA IS MULTI-LEVEL Rx / BINARY Tx
UP/*DOWN_MIN IS A CONTROL SIGNAL USED TO INCREASE OR DECREASE THE
ALPHA LASER BIAS DRIVE CURRENT

INITIAL SIGNAL STATES: UP/*DOWN_MIN='1' TO '0' (INITIATES MIN_CAL_ALPHA)

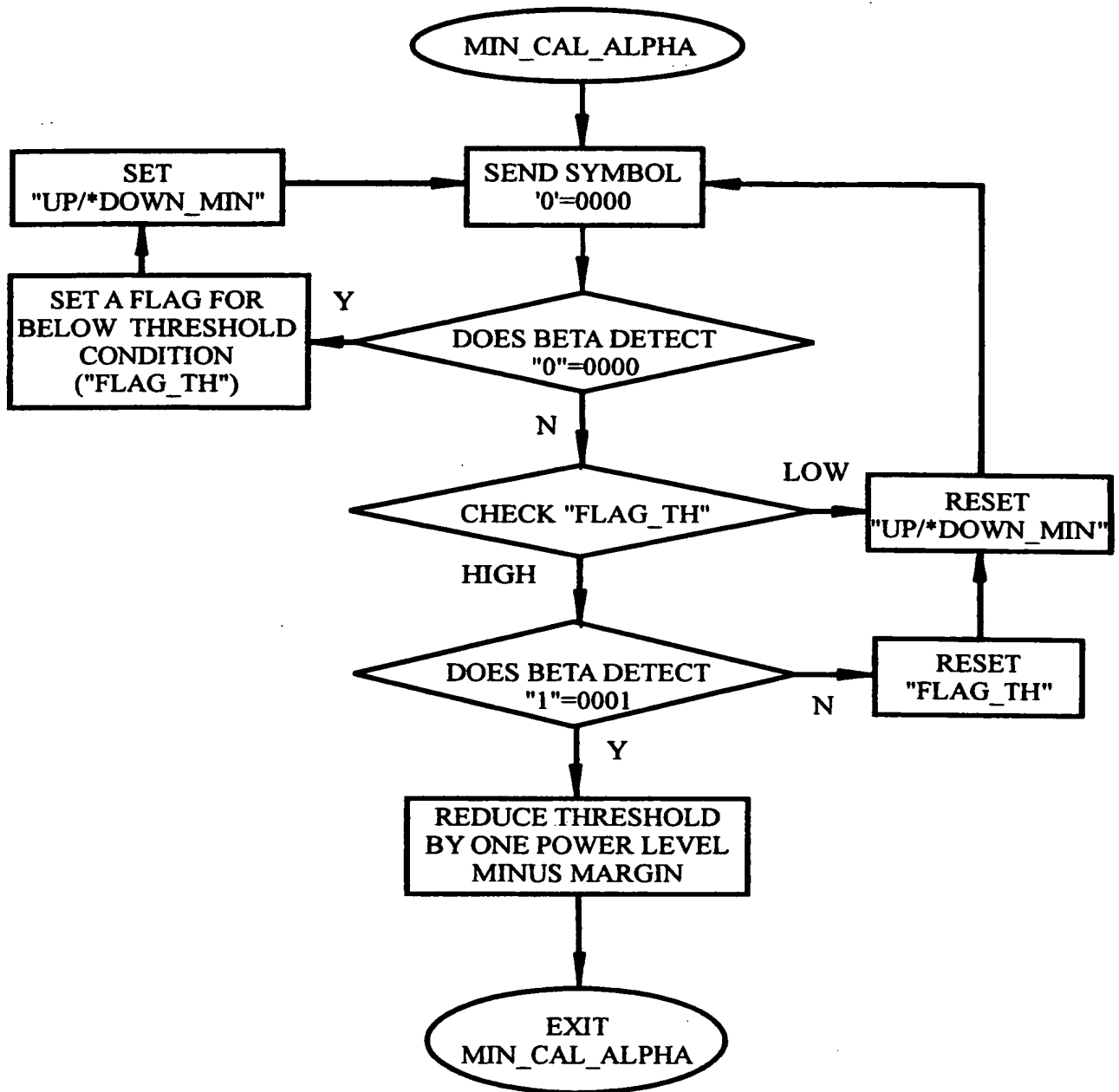


Fig. 6A

ALPHA IS MULTI-LEVEL Tx / BINARY Rx, BETA IS MULTI-LEVEL Rx / BINARY Tx
UP/*DOWN_MAX IS A CONTROL SIGNAL USED TO INCREASE OR DECREASE THE ALPHA
LASER MODULATION DRIVE CURRENT

INITIAL SIGNAL STATES: UP/*DOWN_MAX='0' TO '1' (INITIATES MAX_CAL_ALPHA)

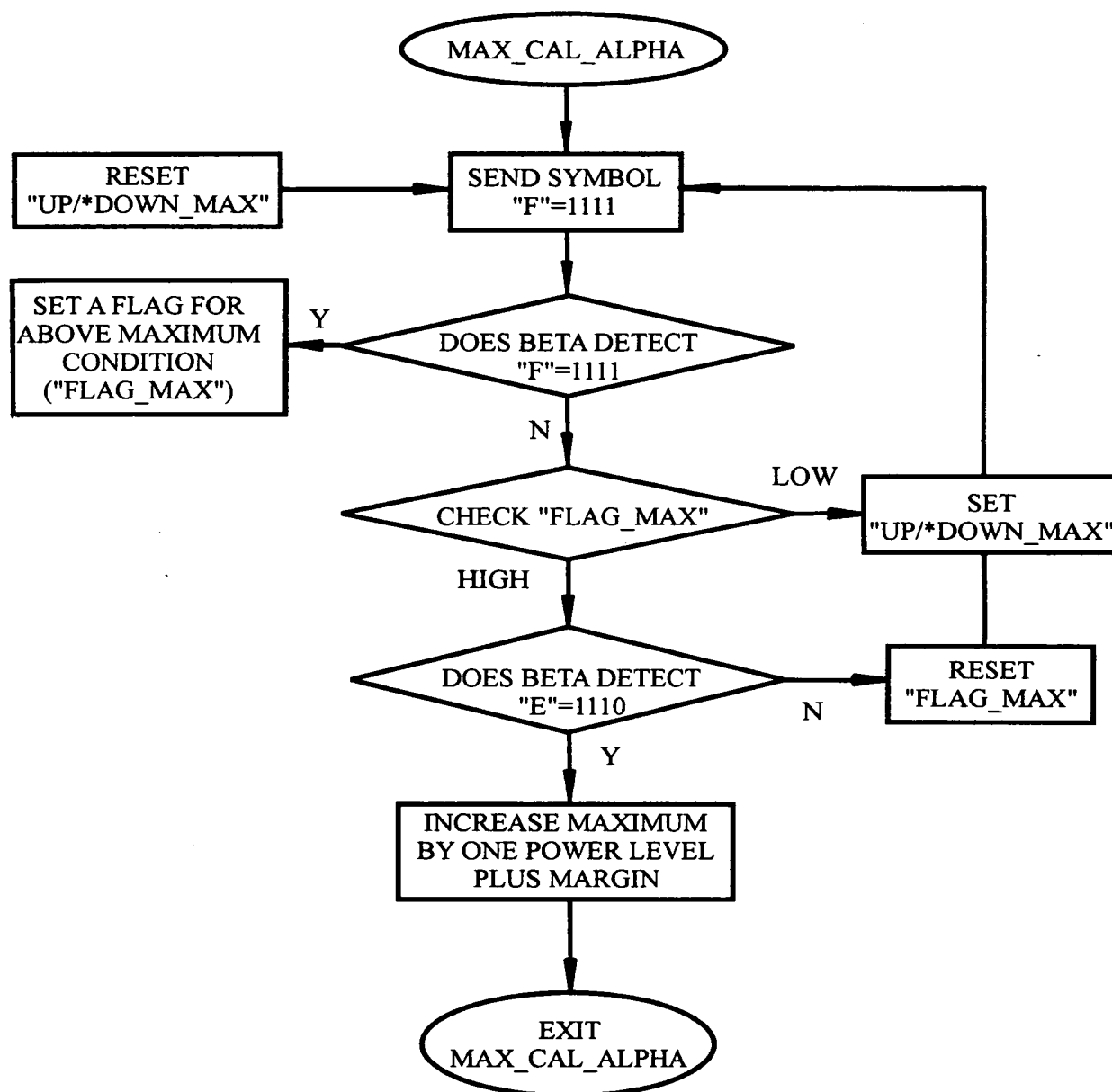


Fig. 6B

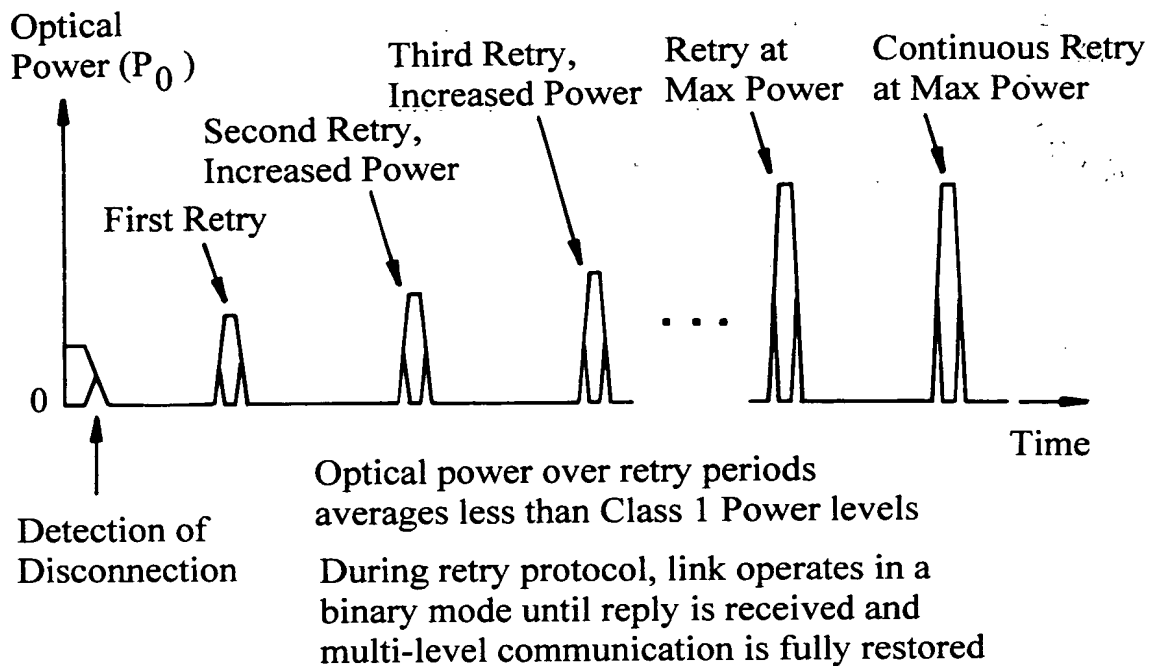


Fig. 7

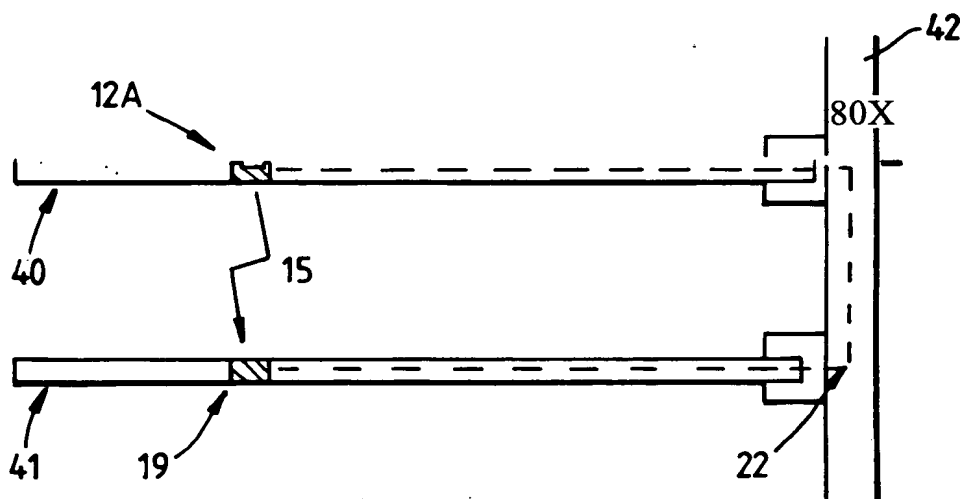


Fig. 8